

Topic

Other

- ❖ Applications
 - ❖ The Evidence Shows:
 - ❖ No Technology Risk
 - ❖ Regulations and Market Forces Dictate that the Transmit Power will be the Minimum Necessary to Carry Out the Communications Desired

No Technology Risk

- ❖ Antennas with Multiple Radiators have been used by the US Military in Mission Critical Situations for over three decades
- ❖ In 1997 the FCC Ruled in favor of Antennas with Multiple Radiating Elements.*
 - ❖ “Will maximize spectrum efficiency and minimize interference”
 - ❖ “Will provide licensees with additional flexibility to use directional antennas employing emerging technologies”

* Final Report and Order FCC 97-1 (ET Docket No. 96-35)

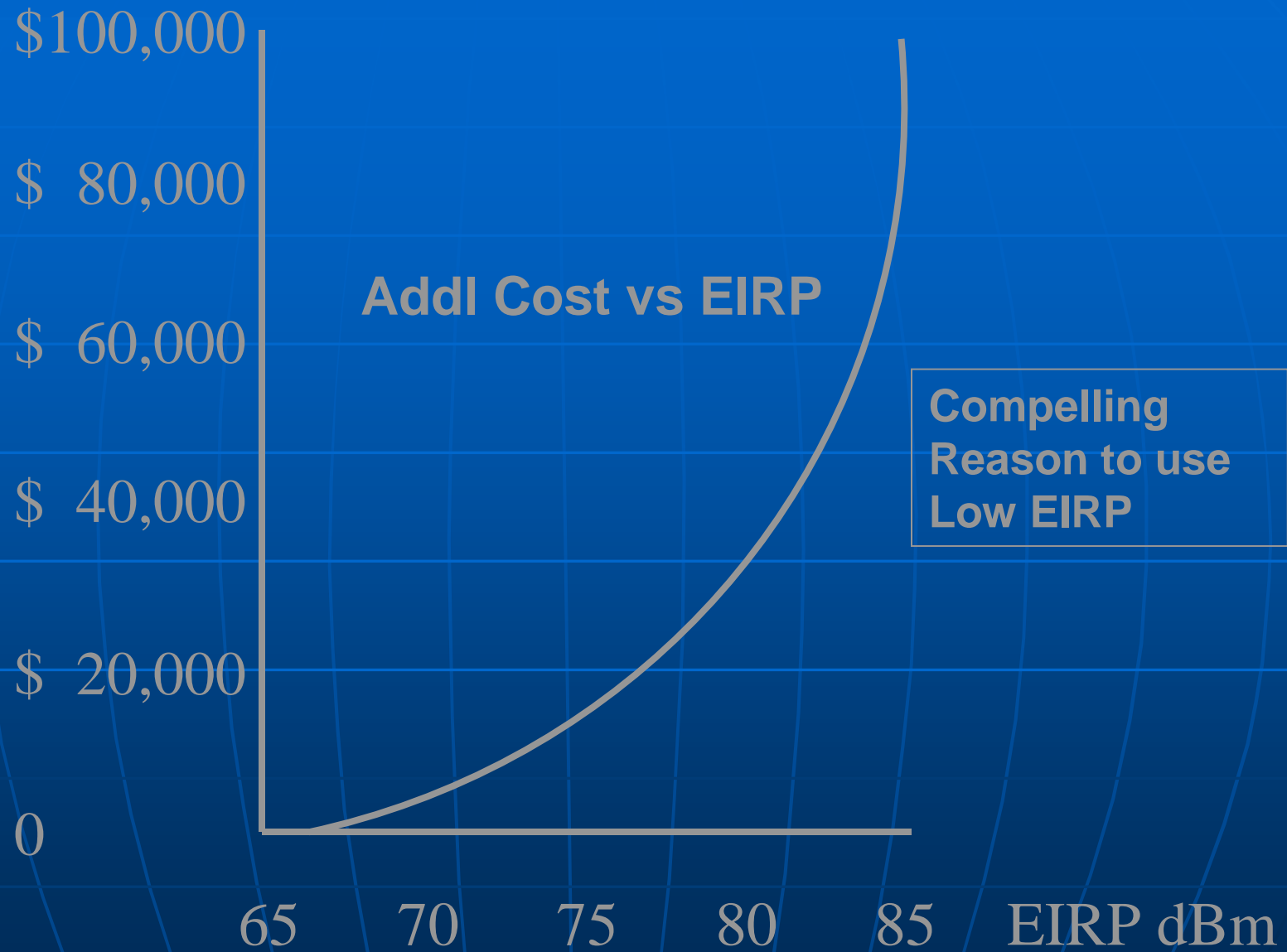
Choice of EIRP

❖ Rule 101.113

The average power delivered to the antenna must be the Minimum Necessary to Carry Out the Communications Desired

Choice of EIRP

The Lowest EIRP results in the Lowest Cost



Choice of EIRP

Advances in technology since 2006 make it possible for the average EIRP of concurrently coordinated paths to be reduced by over 25dB to a level below 95% of the average EIRP of legacy paths

TOPIC

Summary

Need and Necessity

Wireless Strategies Inc.

November 14, 2007

Wireless Carriers

Wireless Carriers are reporting that voice revenue growth has stalled and are questioning if there will be sufficient backhaul spectrum and cost-effective products to introduce new data services.

The CEO Council

The CEO Council (CEOs from Motorola, Intel, IBM, HP, Dell, etc.) has called on the U.S. government to find more spectrum for use as new applications emerge.

The Solution:
More Effective use of Existing
Spectrum

A Favorable Ruling would be
Consistent with the Goals of
Congress and the Commission

- ❖ The FCC has consistently promoted the national policy set forth in Section 257 of the Communications Act by enabling industry operators and equipment providers to maximize the efficient use of spectrum and facilitate innovative services and product offerings.

- ❖ The FCC's Best Practices for National Spectrum Management promotes innovation and the introduction of new applications and technologies.
- ❖ The FCC's Spectrum Policy Task Force Report supports enabling the use of spectrum across various dimensions (frequency, time, space), promoting the efficient use of spectrum, and providing for continued technology advances.

Goals (WTB's Web Site)

- 1. Foster competition among different services.
- 2. Promote universal service, public safety, and service to individuals with disabilities.
- 3. Maximize efficient use of spectrum.
- 4. Develop a framework for analyzing market conditions for wireless services.
- 5. Minimize regulation where appropriate.
- 6. Facilitate innovative service and product offerings, particularly by small businesses and new entrants.
- 7. Serve WTB customers efficiently (including improving licensing, eliminating backlogs, disseminating information and making staff accessible).
- 8. Enhance consumer outreach and protection; improve enforcement process.

The Evidence Shows

WTB Docket No 07-121

- ✓ A Declaratory Ruling is the correct vehicle for removing uncertainty
- ✓ Public Notice Comments and Reply Comments have Produced Evidence to Remove Uncertainties
- ✓ Part 101 of the FCC's Rules does Protect Fixed Service Licensees From Harmful Interference and also Promotes the Effective use of Spectrum
- ✓ WSI's request is compliant with Part 101 of the Rules
- ✓ WSI's Request meets a Public Need and Necessity for the more Effective Use of a Finite National Resource (Spectrum) Under Part 101 of the Rules

A scenic landscape photograph of a mountain valley. In the foreground, there is a field of dry, yellowish-brown grass and small green shrubs. In the middle ground, a wide, flat valley floor is visible, surrounded by rolling hills and sparse vegetation. In the background, a range of rugged, rocky mountains rises against a bright blue sky filled with large, white, fluffy clouds. The lighting suggests a sunny day, with some shadows on the mountain slopes.

“Go off and do something wonderful”
-Robert Noyce, co-founder of Intel

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